

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-8. (canceled).

9. (new): A device for acquiring latent image information contained in a phosphor layer, said device comprising:

a light source for irradiating the phosphor layer with excitation light that is suitable for exciting emission light in the phosphor layer, said emission light having a first wavelength range and said excitation light having a second wavelength range;

a detector for detecting the emission light that has been excited in the phosphor layer; and
a filter device, arranged between at least one of the phosphor layer and the detector, and the phosphor layer and the light source, the improvement wherein:

the filter device comprises at least two absorption filter elements which are joined to one another,

wherein the filter device is substantially transparent in a first wavelength range of the emission light and is substantially non-transparent in a second wavelength range of the excitation light, and

wherein the filter device is substantially non-transparent in at least a third wavelength range that is located at longer wavelengths than the second wavelength range of the excitation light.

10. (new): The device according to claim 9, wherein the filter device comprises at least two filter elements,

wherein at least a first one of the filter elements is substantially transparent in the first wavelength range of the emission light and is substantially non-transparent in the second wavelength range of the excitation light, and

wherein at least a second one of the filter elements is substantially transparent in the first wavelength range of the emission light and is substantially non-transparent in the third wavelength range, which is located at longer wavelengths than the second wavelength range of the excitation light.

11. (new): The device according to claim 10, wherein at least one of the filter elements includes a second reflection layer that is substantially non-transparent for light in a fifth wavelength range, which is located at longer wavelengths than the second wavelength range and which partially overlaps with the third wavelength range.

12. (new): The device according to claims 11, wherein at least one of the filter elements includes a first reflection layer that is substantially non-transparent for light in a fourth wavelength range, which is located at longer wavelengths than the second wavelength range, and wherein the fifth wavelength range partially overlaps with the fourth wavelength range.

13. (new): The device according to claim 9, wherein at least one of the filter elements includes a first reflection layer that is substantially non-transparent for light in a fourth wavelength range, which is located at longer wavelengths than the second wavelength range.

14. (new): The device according to claim 13, wherein the fourth wavelength range partially overlaps with the second wavelength range.

15. (new): The device according to claim 9, wherein the third wavelength range overlaps with the second wavelength range.

16. (new): The device according to claim 9, wherein the filter device at wavelengths in the first wavelength range exhibits a degree of transmission that is greater than 0.1.

17. (new): The device according to claim 9, wherein the filter device at wavelengths in at least one of the second wavelength range and the third wavelength range exhibits a degree of transmission that is less than 10^{-3} .

18. (new): The device according to claim 9, wherein the third wavelength range borders on the second wavelength range.

19. (new): The device according to claim 9, wherein the filter device at wavelengths in the first wavelength range exhibits a degree of transmission that is greater than 0.7.

20. (new): The device according to claim 9, wherein the filter device at wavelengths in at least one of the second wavelength range and the third wavelength range exhibits a degree of transmission that is less than 10^{-4} .